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Cy 4 of 6

23 April 1956

MEMORANDUM FOR THE RECORD

SUBJECT: Selection of Radio Stations for use in Navigation D.F.

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1. A meeting was held 23 April 1956 with [redacted] concerning broadcasting data collected by Kubark Communications and the "Foreign Broadcast Information Service." (F.B.I.S.)

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2. During this conference the following information was presented by [redacted]
  - a. Russian Broadcasting stations, especially the more powerful stations have excellent frequency stability.
  - b. Station Modulation and Identification are excellent.
  - c. Low frequency broadcast (150 cycle to 600 cycle) are more reliable for direction than the regular, or medium (600 - 1500 cycle) frequencies.
  - d. The hours of operation are very erratic. Published hours of operation are not followed. (Even the Moscow radio may go off the air for two or three hours without prior notice).
  - e. The more powerful broadcast stations will definitely operate a radio compass needle within 100 miles of the stations and will block out smaller stations on the same frequency.
3. In using the commercial broadcast stations as homers or for D.F. fixes two main problems are presented:
  - a. Can Pilot identify station?
  - b. Will station be on the air?
4. The use of commercial and military electronic navigational aids (Homer Beacon and Radio Ranges) for D.F. was also discussed.
  - a. Beacon and Ranges are usually identified by code. Pilots could identify station.
  - b. The distance of positive compass operation is very small compared to the Commercial Broadcast station.
5. F.B.I.S. will be contacted for additional information. F.B.I.S. has published a classified study called "Program Notes." This study contains such information, concerning the more powerful broadcast stations, as frequency, power, location, program, hours of operation, etc.

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6. Upon receipt of additional information, paragraph 5 above, the best stations will be plotted for staff discussion. Those desirable for utilization as aids to navigation for radio D.F. problems will be selected at that time.

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L/C USAF

FCS/DCI/O/NPH/efm

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